

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/053,753A

Source: IFW/6

Date Processed by STIC: 1-21-05

ENTERED



IFW16

RAW SEQUENCE LISTING

DATE: 01/21/2005

PATENT APPLICATION: US/10/053,753A

TIME: 16:08:51

Input Set : A:\SeqListing05031.3.txt

Output Set: N:\CRF4\01212005\J053753A.raw

SEQUENCE LISTING

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4 (1) GENERAL INFORMATION:
6     (i) APPLICANT: Lau, Lester F.
8     (ii) TITLE OF INVENTION: Extracellular Matrix Signalling Molecules
10    (iii) NUMBER OF SEQUENCES: 21
12    (iv) CORRESPONDENCE ADDRESS:
13         (A) ADDRESSEE: Howrey Simon Arnold & White LLP
14         (B) STREET: 321 North Clark Street, Suite 3400
15         (C) CITY: Chicago
16         (D) STATE: Illinois
17         (E) COUNTRY: United States of America
18         (F) ZIP: 60610
20    (v) COMPUTER READABLE FORM:
21         (A) MEDIUM TYPE: Floppy disk
22         (B) COMPUTER: IBM PC compatible
23         (C) OPERATING SYSTEM: PC-DOS/MS-DOS
24         (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
26    (vi) CURRENT APPLICATION DATA:
C--> 27         (A) APPLICATION NUMBER: US/10/053,753A
C--> 28         (B) FILING DATE: 22-Jan-2002
29         (C) CLASSIFICATION:
31    (viii) ATTORNEY/AGENT INFORMATION:
32         (A) NAME: Clough, David W.
33         (B) REGISTRATION NUMBER: 36,107
34         (C) REFERENCE/DOCKET NUMBER: 05031.0003.CNUS02
36    (ix) TELECOMMUNICATION INFORMATION:
37         (A) TELEPHONE: 312/595-1408
38         (B) TELEFAX: 312/595-2250
39         (C) TELEX:
41 (2) INFORMATION FOR SEQ ID NO: 1:
43     (i) SEQUENCE CHARACTERISTICS:
44         (A) LENGTH: 1480 base pairs
45         (B) TYPE: nucleic acid
46         (C) STRANDEDNESS: single
47         (D) TOPOLOGY: linear
49     (ii) MOLECULE TYPE: protein
51     (ix) FEATURE:
52         (A) NAME/KEY: CDS
53         (B) LOCATION: 180..1316
55     (ix) FEATURE:
56         (A) NAME/KEY: misc_feature
57         (D) OTHER INFORMATION: "Mouse cyr61 cDNA coding sequence"
59     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

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61	CGAGAGCGCC	CCAGAGAAGC	GCCTGCAATC	TCTGCGCCTC	CTCCGCCAGC	ACCTCGAGAG	60
63	AAGGACACCC	GCCGCCTCGG	CCCTCGCCTC	ACCGCACTCC	GGGCGCATTT	GATCCCGCTG	120
65	CTCGCCGGCT	TGTTGGTTCT	GTGTCGCCGC	GCTCGCCCCG	GTTCTCCTG	CGCGCCACA	179
67	ATG AGC TCC AGC ACC TTC AGG ACG CTC GCT GTC GCC GTC ACC CTT CTC	227					
68	Met Ser Ser Ser Thr Phe Arg Thr Leu Ala Val Ala Val Thr Leu Leu						
69	1 5 10 15						
71	CAC TTG ACC AGA CTG GCG CTC TCC ACC TGC CCC GCC GCC TGC CAC TGC	275					
72	His Leu Thr Arg Leu Ala Leu Ser Thr Cys Pro Ala Ala Cys His Cys						
73	20 25 30						
75	CCT CTG GAG GCA CCC AAG TGC GCC CCG GGA GTC GGG TTG GTC CGG GAC	323					
76	Pro Leu Glu Ala Pro Lys Cys Ala Pro Gly Val Gly Leu Val Arg Asp						
77	35 40 45						
79	GGC TGC GGC TGC TGT AAG GTC TGC GCT AAA CAA CTC AAC GAG GAC TGC	371					
80	Gly Cys Gly Cys Cys Lys Val Cys Ala Lys Gln Leu Asn Glu Asp Cys						
81	50 55 60						
83	AGC AAA ACT CAG CCC TGC GAC CAC ACC AAG GGG TTG GAA TGC AAT TTC	419					
84	Ser Lys Thr Gln Pro Cys Asp His Thr Lys Gly Leu Glu Cys Asn Phe						
85	65 70 75 80						
87	GGC GCC AGC TCC ACC GCT CTG AAA GGG ATC TGC AGA GCT CAG TCA GAA	467					
88	Gly Ala Ser Ser Thr Ala Leu Lys Gly Ile Cys Arg Ala Gln Ser Glu						
89	85 90 95						
91	GGC AGA CCC TGT GAA TAT AAC TCC AGA ATC TAC CAA AAC GGG GAA AGC	515					
92	Gly Arg Pro Cys Glu Tyr Asn Ser Arg Ile Tyr Gln Asn Gly Glu Ser						
93	100 105 110						
95	TTC CAG CCC AAC TGT AAA CAC CAG TGC ACA TGT ATT GAT GGC GCC GTG	563					
96	Phe Gln Pro Asn Cys Lys His Gln Cys Thr Cys Ile Asp Gly Ala Val						
97	115 120 125						
99	GGC TGC ATT CCT CTG TGT CCC CAA GAA CTG TCT CTC CCC AAT CTG GGC	611					
100	Gly Cys Ile Pro Leu Cys Pro Gln Glu Leu Ser Leu Pro Asn Leu Gly						
101	130 135 140						
103	TGT CCC AAC CCC CGG CTG GTG AAA GTC AGC GGG CAG TGC TGT GAA GAG	659					
104	Cys Pro Asn Pro Arg Leu Val Lys Val Ser Gly Gln Cys Cys Glu Glu						
105	145 150 155 160						
107	TGG GTT TGT GAT GAA GAC AGC ATT AAG GAC TCC CTG GAC GAC CAG GAT	707					
108	Trp Val Cys Asp Glu Asp Ser Ile Lys Asp Ser Leu Asp Asp Gln Asp						
109	165 170 175						
111	GAC CTC CTC GGA CTC GAT GCC TCG GAG GTG GAG TTA ACG AGA AAC AAT	755					
112	Asp Leu Leu Gly Leu Asp Ala Ser Glu Val Glu Leu Thr Arg Asn Asn						
113	180 185 190						
115	GAG TTA ATC GCA ATT GGA AAA GGC AGC TCA CTG AAG AGG CTT CCT GTC	803					
116	Glu Leu Ile Ala Ile Gly Lys Gly Ser Ser Leu Lys Arg Leu Pro Val						
117	195 200 205						
119	TTT GGC ACC GAA CCG CGA GTT CTT TTC AAC CCT CTG CAC GCC CAT GGC	851					
120	Phe Gly Thr Glu Pro Arg Val Leu Phe Asn Pro Leu His Ala His Gly						
121	210 215 220						
123	CAG AAA TGC ATC GTT CAG ACC ACG TCT TGG TCC CAG TGC TCC AAG AGC	899					
124	Gln Lys Cys Ile Val Gln Thr Thr Ser Trp Ser Gln Cys Ser Lys Ser						
125	225 230 235 240						
127	TGC GGA ACT GGC ATC TCC ACA CGA GTT ACC AAT GAC AAC CCA GAG TGC	947					

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128 Cys Gly Thr Gly Ile Ser Thr Arg Val Thr Asn Asp Asn Pro Glu Cys
129                245                250                255
131 CGC CTG GTG AAA GAG ACC CGG ATC TGT GAA GTG CGT CCT TGT GGA CAA      995
132 Arg Leu Val Lys Glu Thr Arg Ile Cys Glu Val Arg Pro Cys Gly Gln
133                260                265                270
135 CCA GTG TAC AGC AGC CTA AAA AAG GGC AAG AAA TGC AGC AAG ACC AAG      1043
136 Pro Val Tyr Ser Ser Leu Lys Lys Gly Lys Lys Cys Ser Lys Thr Lys
137                275                280                285
139 AAA TCC CCA GAA CCA GTC AGA TTT ACT TAT GCA GGA TGC TCC AGT GTC      1091
140 Lys Ser Pro Glu Pro Val Arg Phe Thr Tyr Ala Gly Cys Ser Ser Val
141                290                295                300
143 AAG AAA TAC CGG CCC AAA TAC TGC GGC TCC TGC GTA GAT GGC CGG TGC      1139
144 Lys Lys Tyr Arg Pro Lys Tyr Cys Gly Ser Cys Val Asp Gly Arg Cys
145 305                310                315                320
147 TGC ACA CCT CTG CAG ACC AGA ACT GTG AAG ATG CGG TTC CGA TGC GAA      1187
148 Cys Thr Pro Leu Gln Thr Arg Thr Val Lys Met Arg Phe Arg Cys Glu
149                325                330                335
151 GAT GGA GAG ATG TTT TCC AAG AAT GTC ATG ATG ATC CAG TCC TGC AAA      1235
152 Asp Gly Glu Met Phe Ser Lys Asn Val Met Met Ile Gln Ser Cys Lys
153                340                345                350
155 TGT AAC TAC AAC TGC CCG CAT CCC AAC GAG GCA TCG TTC CGA CTG TAC      1283
156 Cys Asn Tyr Asn Cys Pro His Pro Asn Glu Ala Ser Phe Arg Leu Tyr
157                355                360                365
159 AGC CTA TTC AAT GAC ATC CAC AAG TTC AGG GAC TAAGTGCCTC CAGGGTTCCT      1336
160 Ser Leu Phe Asn Asp Ile His Lys Phe Arg Asp
161                370                375
163 AGTGTGGGCT GGACAGAGGA GAAGCGCAAG CATCATGGAG ACGTGGGTGG GCGGAGGATG      1396
165 AATGGTGCCT TGCTATTCT TGAGTAGCAT TAGGGTATTT CAAAACTGCC AAGGGGCTGA      1456
167 TGTGGACGGA CAGCAGCGCA GCCG      1480
169 (2) INFORMATION FOR SEQ ID NO: 2:
171     (i) SEQUENCE CHARACTERISTICS:
172         (A) LENGTH: 379 amino acids
173         (B) TYPE: amino acid
174         (D) TOPOLOGY: linear
176     (ii) MOLECULE TYPE: protein
178     (ix) FEATURE:
179         (A) NAME/KEY: misc_feature
180         (D) OTHER INFORMATION: "Mouse Cyr61 amino acid sequence"
182     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
184 Met Ser Ser Ser Thr Phe Arg Thr Leu Ala Val Ala Val Thr Leu Leu
185 1                5                10                15
187 His Leu Thr Arg Leu Ala Leu Ser Thr Cys Pro Ala Ala Cys His Cys
188                20                25                30
190 Pro Leu Glu Ala Pro Lys Cys Ala Pro Gly Val Gly Leu Val Arg Asp
191                35                40                45
193 Gly Cys Gly Cys Cys Lys Val Cys Ala Lys Gln Leu Asn Glu Asp Cys
194                50                55                60
196 Ser Lys Thr Gln Pro Cys Asp His Thr Lys Gly Leu Glu Cys Asn Phe
197 65                70                75                80

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199 Gly Ala Ser Ser Thr Ala Leu Lys Gly Ile Cys Arg Ala Gln Ser Glu
200      85      90      95
202 Gly Arg Pro Cys Glu Tyr Asn Ser Arg Ile Tyr Gln Asn Gly Glu Ser
203      100     105     110
205 Phe Gln Pro Asn Cys Lys His Gln Cys Thr Cys Ile Asp Gly Ala Val
206      115     120     125
208 Gly Cys Ile Pro Leu Cys Pro Gln Glu Leu Ser Leu Pro Asn Leu Gly
209      130     135     140
211 Cys Pro Asn Pro Arg Leu Val Lys Val Ser Gly Gln Cys Cys Glu Glu
212 145      150     155     160
214 Trp Val Cys Asp Glu Asp Ser Ile Lys Asp Ser Leu Asp Asp Gln Asp
215      165     170     175
217 Asp Leu Leu Gly Leu Asp Ala Ser Glu Val Glu Leu Thr Arg Asn Asn
218      180     185     190
220 Glu Leu Ile Ala Ile Gly Lys Gly Ser Ser Leu Lys Arg Leu Pro Val
221      195     200     205
223 Phe Gly Thr Glu Pro Arg Val Leu Phe Asn Pro Leu His Ala His Gly
224      210     215     220
226 Gln Lys Cys Ile Val Gln Thr Thr Ser Trp Ser Gln Cys Ser Lys Ser
227 225      230     235     240
229 Cys Gly Thr Gly Ile Ser Thr Arg Val Thr Asn Asp Asn Pro Glu Cys
230      245     250     255
232 Arg Leu Val Lys Glu Thr Arg Ile Cys Glu Val Arg Pro Cys Gly Gln
233      260     265     270
235 Pro Val Tyr Ser Ser Leu Lys Lys Gly Lys Lys Cys Ser Lys Thr Lys
236      275     280     285
238 Lys Ser Pro Glu Pro Val Arg Phe Thr Tyr Ala Gly Cys Ser Ser Val
239      290     295     300
241 Lys Lys Tyr Arg Pro Lys Tyr Cys Gly Ser Cys Val Asp Gly Arg Cys
242 305      310     315     320
244 Cys Thr Pro Leu Gln Thr Arg Thr Val Lys Met Arg Phe Arg Cys Glu
245      325     330     335
247 Asp Gly Glu Met Phe Ser Lys Asn Val Met Met Ile Gln Ser Cys Lys
248      340     345     350
250 Cys Asn Tyr Asn Cys Pro His Pro Asn Glu Ala Ser Phe Arg Leu Tyr
251      355     360     365
253 Ser Leu Phe Asn Asp Ile His Lys Phe Arg Asp
254      370     375
256 (2) INFORMATION FOR SEQ ID NO: 3:
258     (i) SEQUENCE CHARACTERISTICS:
259         (A) LENGTH: 1418 base pairs
260         (B) TYPE: nucleic acid
261         (C) STRANDEDNESS: single
262         (D) TOPOLOGY: linear
264     (ii) MOLECULE TYPE: protein
266     (ix) FEATURE:
267         (A) NAME/KEY: CDS
268         (B) LOCATION: 124..1266
270     (ix) FEATURE:

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Output Set: N:\CRF4\01212005\J053753A.raw

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271      (A) NAME/KEY: misc_feature
272      (D) OTHER INFORMATION: "Human cyr61 cDNA coding sequence"
274      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
276 GGGCGGGCCC ACCGCGACAC CGCGCCGCCA CCCCAGCCCC GCTGCGCACG GCCTGTCCGC      60
278 TGCACACCAG CTTGTTGGCG TCTTCGTCGC CGCGCTCGCC CCGGGCTACT CCTGCGCGCC      120
280 ACA ATG AGC TCC CGC ATC GCC AGG GCG CTC GCC TTA GTC GTC ACC CTT      168
281   Met Ser Ser Arg Ile Ala Arg Ala Leu Ala Leu Val Val Thr Leu
282     1           5           10           15
284 CTC CAC TTG ACC AGG CTG GCG CTC TCC ACC TGC CCC GCT GCC TGC CAC      216
285 Leu His Leu Thr Arg Leu Ala Leu Ser Thr Cys Pro Ala Ala Cys His
286           20           25           30
288 TGC CCC CTG GAG GCG CCC AAG TGC GCG CCG GGA GTC GGG CTG GTC CGG      264
289 Cys Pro Leu Glu Ala Pro Lys Cys Ala Pro Gly Val Gly Leu Val Arg
290           35           40           45
292 GAC GGC TGC GGC TGC TGT AAG GTC TGC GCC AAG CAG CTC AAC GAG GAC      312
293 Asp Gly Cys Gly Cys Cys Lys Val Cys Ala Lys Gln Leu Asn Glu Asp
294           50           55           60
296 TGC AGC AAA ACG CAG CCC TGC GAC CAC ACC AAG GGG CTG GAA TGC AAC      360
297 Cys Ser Lys Thr Gln Pro Cys Asp His Thr Lys Gly Leu Glu Cys Asn
298           65           70           75
300 TTC GGC GCC AGC TCC ACC GCT CTG AAG GGG ATC TGC AGA GCT CAG TCA      408
301 Phe Gly Ala Ser Ser Thr Ala Leu Lys Gly Ile Cys Arg Ala Gln Ser
302   80           85           90           95
304 GAG GGC AGA CCC TGT GAA TAT AAC TCC AGA ATC TAC CAA AAC GGG GAA      456
305 Glu Gly Arg Pro Cys Glu Tyr Asn Ser Arg Ile Tyr Gln Asn Gly Glu
306           100          105          110
308 AGT TTC CAG CCC AAC TGT CAA CAT CAG TGC ACA TGT ATT GAT GGC GCC      504
309 Ser Phe Gln Pro Asn Cys Gln His Gln Cys Thr Cys Ile Asp Gly Ala
310           115          120          125
312 GTG GGC TGC ATT CCT CTG TGT CCC CAA GAA CTA TCT CTC CCC AAC TTG      552
313 Val Gly Cys Ile Pro Leu Cys Pro Gln Glu Leu Ser Leu Pro Asn Leu
314           130          135          140
316 GGC TGT CCC AAC CCT CGG CTG GTC AAA GTT ACC GGG CAG TGC TGC GAG      600
317 Gly Cys Pro Asn Pro Arg Leu Val Lys Val Thr Gly Gln Cys Cys Glu
318           145          150          155
320 GAG TGG GTC TGT GAC GAG GAT AGT ATC AAG GAC CCC ATG GAG GAC CAG      648
321 Glu Trp Val Cys Asp Glu Asp Ser Ile Lys Asp Pro Met Glu Asp Gln
322 160           165          170          175
324 GAC GGC CTC CTT GGC AAG GAG CTG GGA TTC GAT GCC TCC GAG GTG GAG      696
325 Asp Gly Leu Leu Gly Lys Glu Leu Gly Phe Asp Ala Ser Glu Val Glu
326           180          185          190
328 TTG ACG AGA AAC AAT GAA TTG ATT GCA GTT GGA AAA GGC AGA TCA CTG      744
329 Leu Thr Arg Asn Asn Glu Leu Ile Ala Val Gly Lys Gly Arg Ser Leu
330           195          200          205
332 AAG CGG CTC CCT GTT TTT GGA ATG GAG CCT CGC ATC CTA TAC AAC CCT      792
333 Lys Arg Leu Pro Val Phe Gly Met Glu Pro Arg Ile Leu Tyr Asn Pro
334           210          215          220
336 TTA CAA GGC CAG AAA TGT ATT GTT CAA ACA ACT TCA TGG TCC CAG TGC      840
337 Leu Gln Gly Gln Lys Cys Ile Val Gln Thr Thr Ser Trp Ser Gln Cys

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VERIFICATION SUMMARY

DATE: 01/21/2005

PATENT APPLICATION: US/10/053,753A

TIME: 16:08:52

Input Set : A:\SeqListing05031.3.txt

Output Set: N:\CRF4\01212005\J053753A.raw

L:27 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:28 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:477 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=5
L:651 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=7
L:886 M:246 W: Invalid value of Alpha Sequence Header Field, [TOPOLOGY:], SeqNo=13
L:907 M:246 W: Invalid value of Alpha Sequence Header Field, [TOPOLOGY:], SeqNo=14
L:928 M:246 W: Invalid value of Alpha Sequence Header Field, [TOPOLOGY:], SeqNo=15
L:949 M:246 W: Invalid value of Alpha Sequence Header Field, [TOPOLOGY:], SeqNo=16
L:970 M:246 W: Invalid value of Alpha Sequence Header Field, [TOPOLOGY:], SeqNo=17
L:1000 M:111 C: (47) String data converted to upper case,
L:1017 M:111 C: (47) String data converted to upper case,